

ASHRAE 62.1: Ventilation Rate Procedure (VRP) and Indoor Air Quality Procedure (IAQP)



62.1 Overview ~ Andy Persily, Group Leader, NIST

Indoor Air Quality and Ventilation Group, Building Environment Division
Building and Fire Research Laboratory

Dr. Persily works on indoor air quality and ventilation in commercial and residential buildings. His work includes the development and application of measurement techniques to evaluate airflow and air quality characteristics in a variety of building types, including large, mechanically ventilated buildings and single-family dwellings. The evaluation procedures include tracer gas techniques for measuring air change rates and air distribution effectiveness, contaminant concentrations measurements, and envelope air-tightness. He is also involved with

the development and application of multi-zone airflow and contaminant dispersal models.

Dr. Persily is currently a vice-president of the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE), and is past chair of ASHRAE SSPC 62.1, responsible for the revision of the ASHRAE Ventilation Standard 62. He is a past chair of ASTM Subcommittee E6.41 on Air Leakage and Ventilation Performance and vice-chair of subcommittee D22.05 on Indoor Air Quality. Dr. Persily's first two years at the National Bureau of Standards were as a National Research Council Postdoctoral Research Associate, working on air infiltration in homes and large buildings. He received the Department of Commerce Bronze Medal in December 1989, and was named Young Engineer of the Year by the D.C. Council of Engineering and Architectural Societies in 1990. He was named an ASTM Fellow in 2002 and an ASHRAE Fellow in 2004. Contact: 301-975-6418, andrew.persily@nist.gov.



VRP Overview ~ Dennis Stanke, Staff Applications Engineer, Trane, Inc.

With a BSME from the University of Wisconsin, Dennis joined Trane in 1973, as a controls development engineer. He is now a Staff Applications Engineer specializing in airside systems including controls, ventilation, indoor air quality, and dehumidification. Dennis has written numerous applications manuals and newsletters, has published many technical articles and columns, and has appeared in many Trane Engineers Newsletter Live broadcasts. An ASHRAE Fellow, he is currently Chairman for SSPC62.1, the ASHRAE committee responsible for Standard 62.1, "*Ventilation for Acceptable Indoor Air Quality*," and he serves on the USGBC LEED Technical Advisory Group for Indoor Environmental Quality (the EQ TAG). Contact: dstanke@trane.com.



IAQP Overview ~ Chris Muller, Technical Director, Purafil, Inc.

Chris is the Technical Director at Purafil, Inc. of Doraville, GA, a manufacturer of gas-phase air filtration media, filters, equipment and air monitoring instrumentation. Chris is responsible for technical support services and various research and development functions. He has written and spoken extensively on the subject of indoor air quality and the application/use of gas-phase air filtration. He is an ASHRAE Distinguished Lecturer and is a frequent speaker at ASHRAE Chapter and Regional meetings both domestically and abroad.

Chris' ongoing ASHRAE activities include serving as Chair of ASHRAE Standard Project Committee 145P which is developing industry standards for assessing the performance of media and equipment used in gas-phase air filtration systems. He is a voting member of Standing Standard Project Committee 62.1 - Ventilation for Acceptable Indoor Air Quality, serving on the Education subcommittee, and is a co-author of the Standard 62.1 User's Manual. Chris is also a voting member of Technical Committee 2.3 - Gaseous Air Contaminants and Gas Contaminant Removal Equipment. Chris is also a member of A&WMA's IAQ Committee, ASTM committees on Indoor Air and Activated Carbon, ISIAQ's Task Force on IAQ and climate in cultural and heritage collections, and ISA's committee on Environmental Conditions for Process Measurement and Control Systems. Contact: +1-770-662-8545 x341, Fax +1-770-263-6922, Mobile +1-404-578-1193, cmuller@purafil.com.